Portfolio

Miguel Mesquita

Contribution Growth Synergy Creativity

Miguel Mesquita

Product Designer

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Dual Hoverboard

For

new balance

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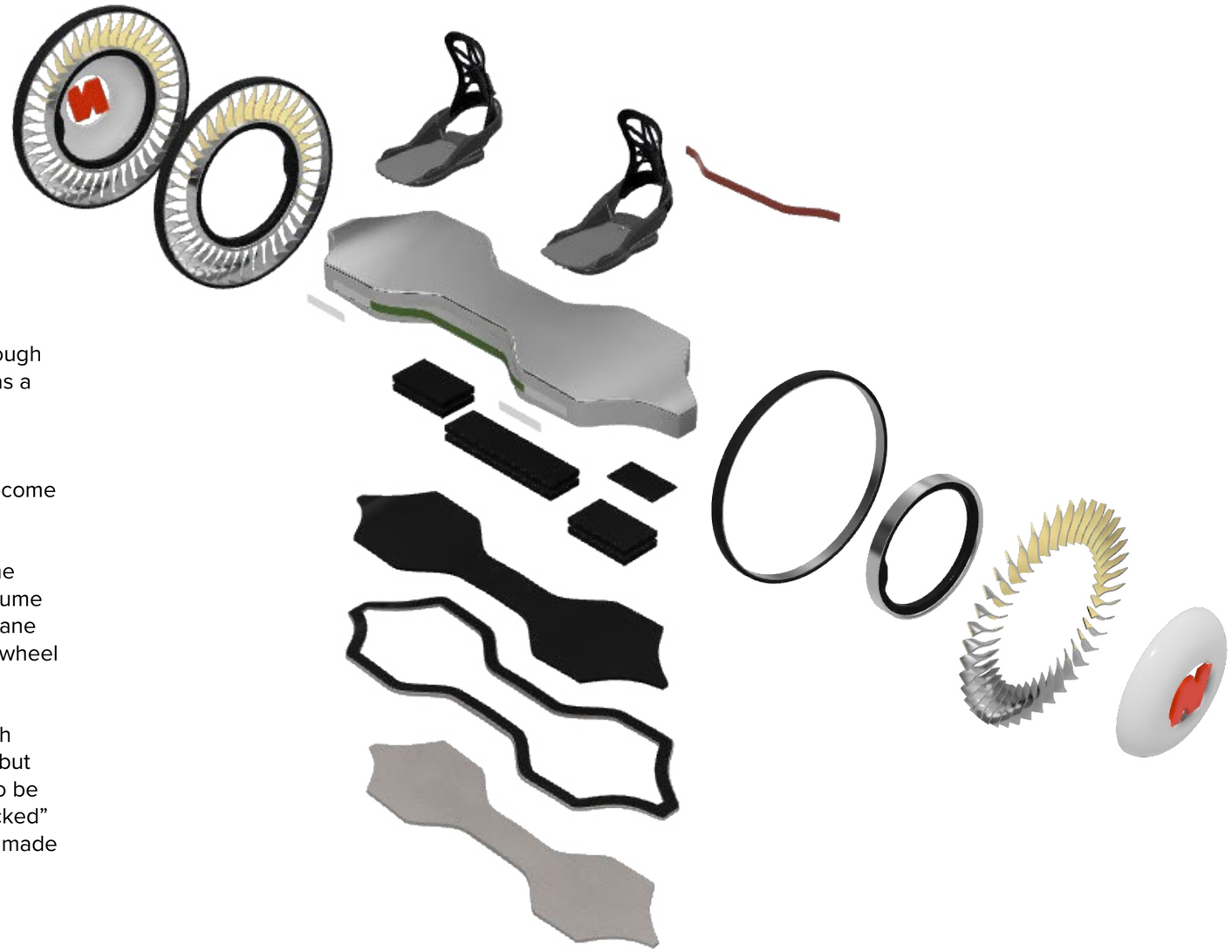
Dual Hoverboard

Conceptual



Based on my research and the various concepts I explored through sketches, I decided to explore the idea of a hoverboard that was a combination of a **land hoverboard and a flying hoverboard**.

The biggest question was: How to solve the wheel problem.
The wheels would have to be versatile in their shape to also become propellers capable of lifting and maintaining flight.

Through my exploratory research i found a feasible solution: The **Aero wheel invisioned by GoodYear**. It allows the wheel to assume two distinct functional roles: a wheel that navigates the earth plane and acts as a common wheel; and the possibility of turning the wheel into propellers that allow the device to navigate in the air.

Another issue was the easy acess and riding experience of such device. It should be fairly similar to riding a normal hoverboard but with safety concerns in mind for a device like this would have to be able to fly and, at the very least, maintain the user safe and “locked” to the device. I found a solution in the **Step-on binding system** made by Burton which is currently used in snowboarding.

Dual Hoverboard

↓

Self-Balancing Electric Board

+

Self Balancing Flying Board

Types

SBEB

SFFB

One-Wheel

Sideways Position

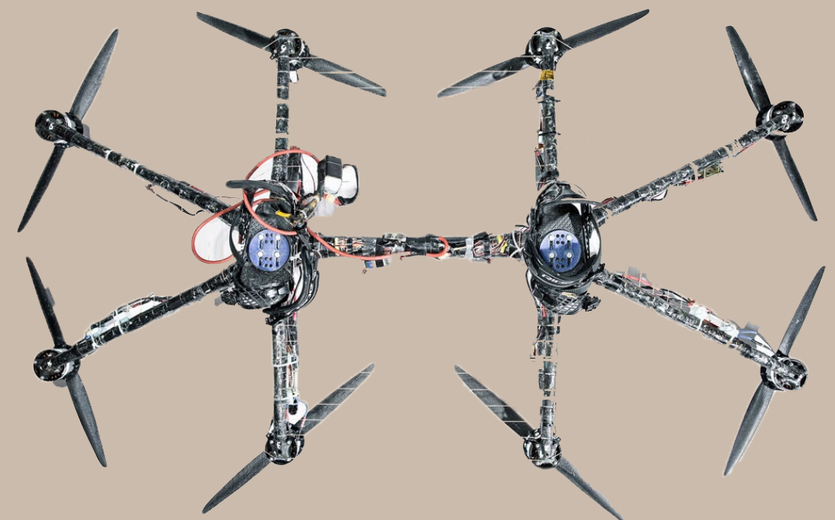
Front and Back Movement

Two-Wheel

Front Position

Front and Back + Twist Directional Movement

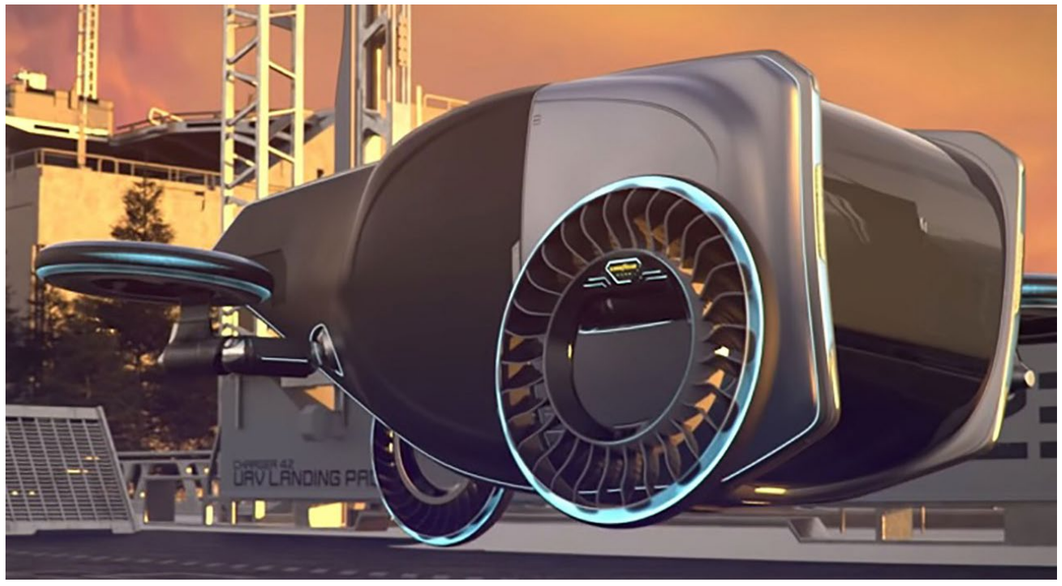
Hoverboard



Front Position

Front and Back + Upward and Downward

Technologies Applied



Goodyear Aero

This new wheel concept developed by Goodyear is the base technology that supports the concept I developed.

It allows the wheel to assume two distinct functional roles: a wheel that navigates the earth plane and acts as a common wheel; and the possibility of turning the wheel into propellers that allow the device to navigate in the air.

It’s an innovative concept that doesn’t feel too forced or too futuristic. We can easily imagine applications for this new technology without any major doubts about its viability.

Burton Step-On

The Burton Step-On binding system is an easy-fitting mechanism applied to snowboarding boots.

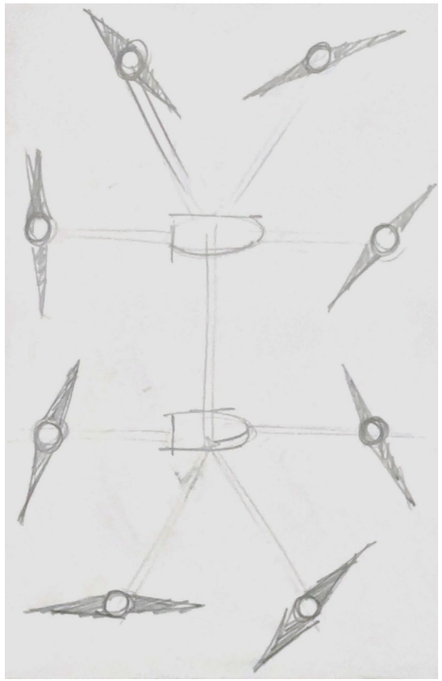
This technology allows the hoverboard-user greater stability and safety. The ease of fitting makes its use simple and efficient and easily understood by all users.

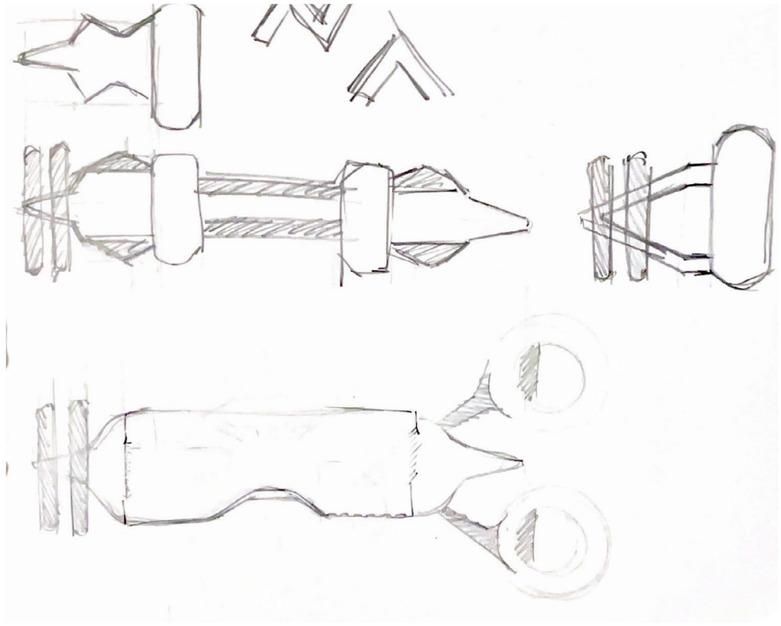
In flight mode, it ensures that the user is well connected to the device, reducing safety concerns.

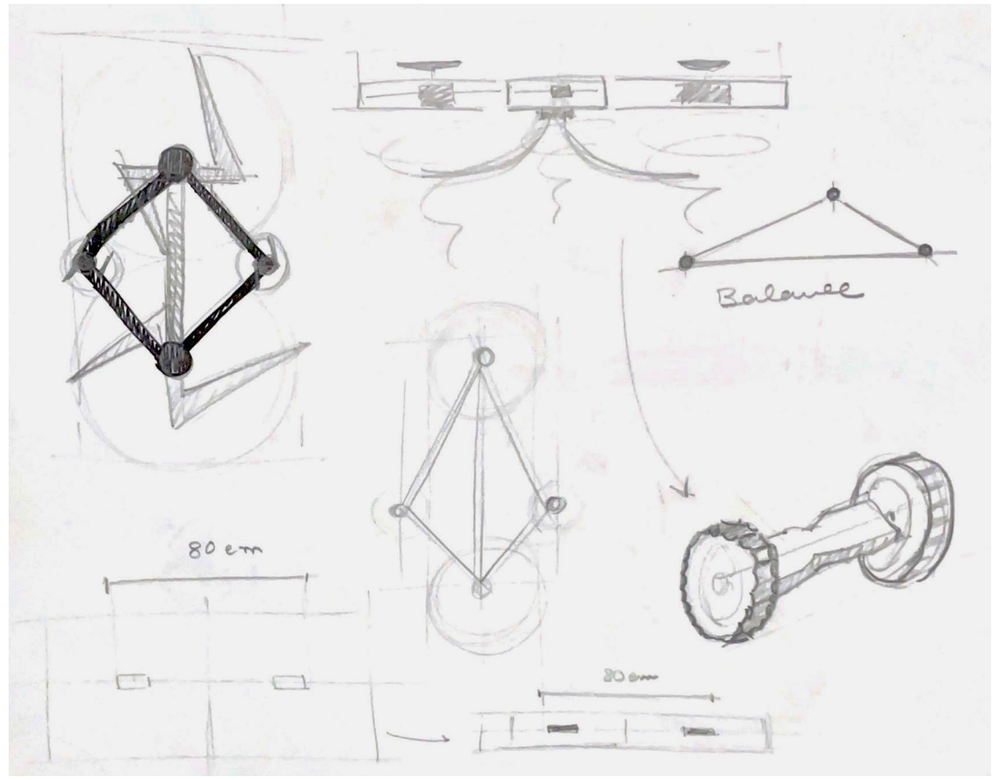
Moodboard

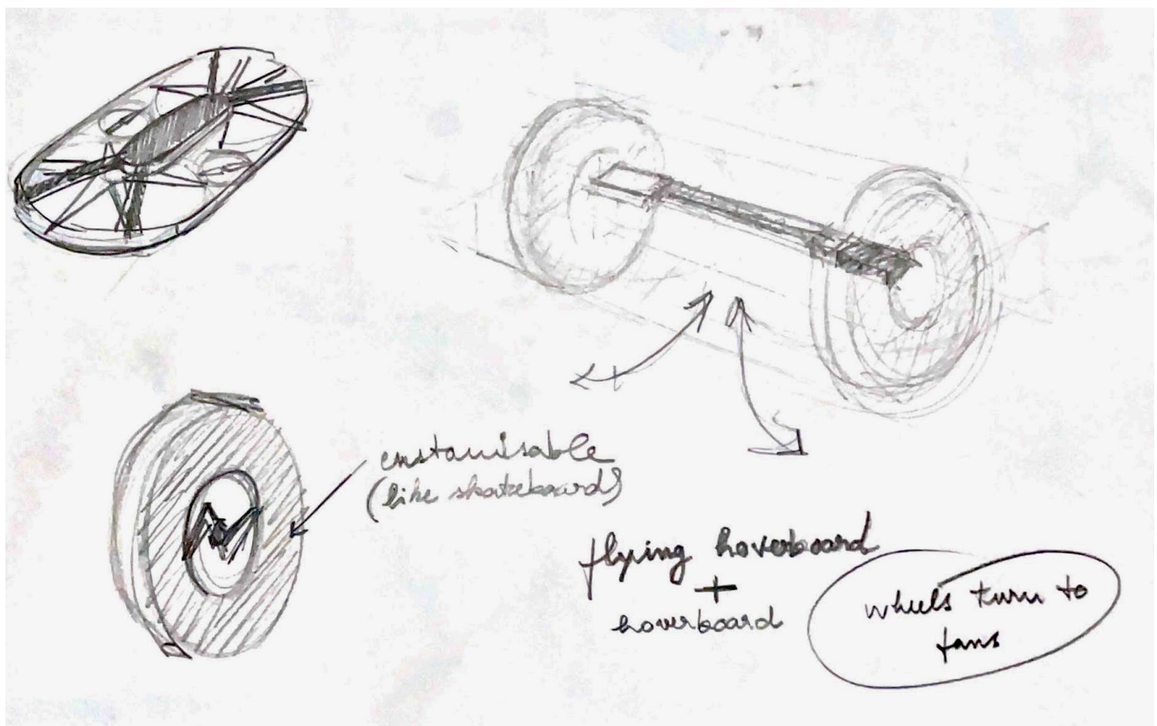
II0V3R804RD
new balance
Mr. Morale & The Big Steppers
Kendrick Lamar
Supreme
PLANBSKATEBOARDS
supreme is love..
Wes Kremer
ELEMENT
new balance
550

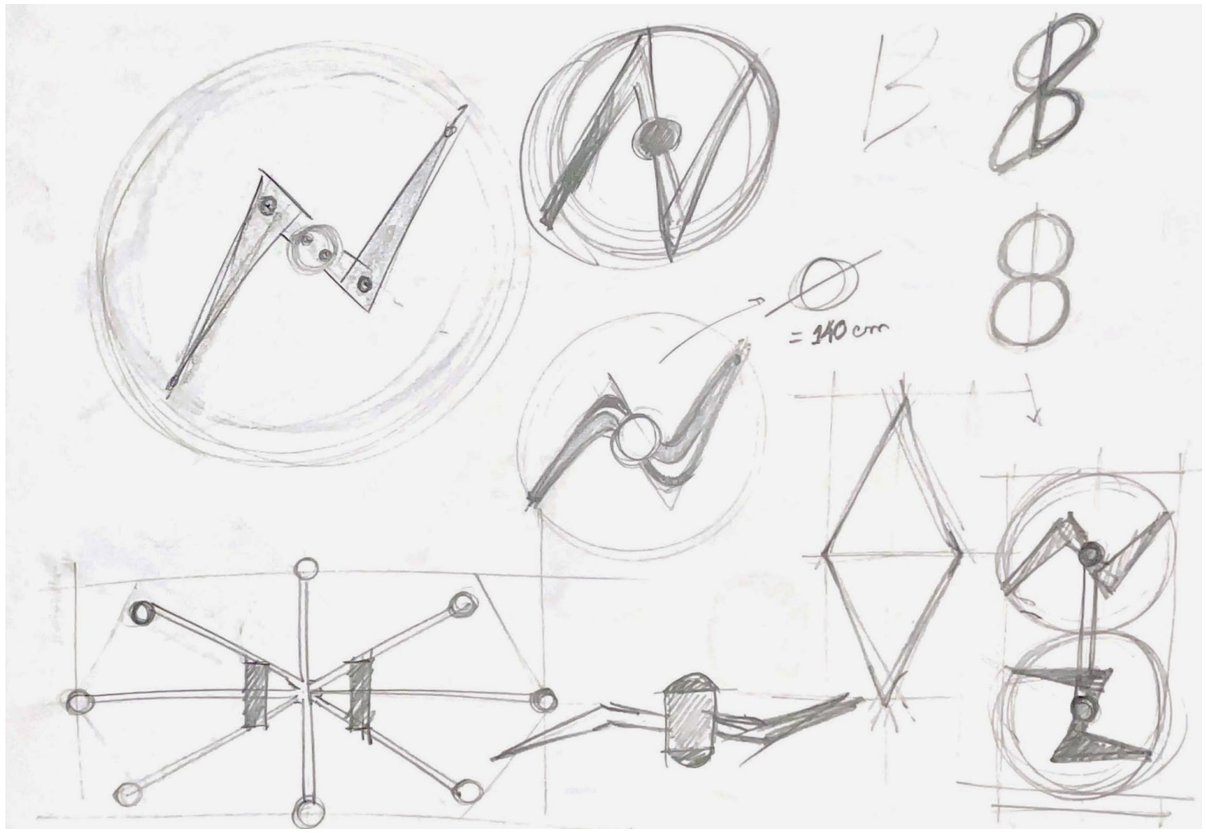
Sketches/3D Testing

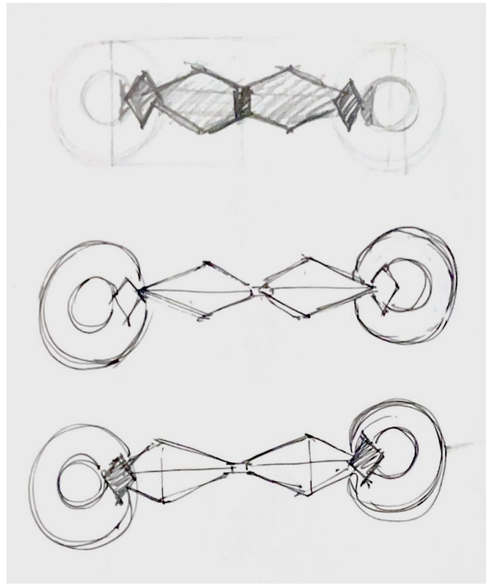


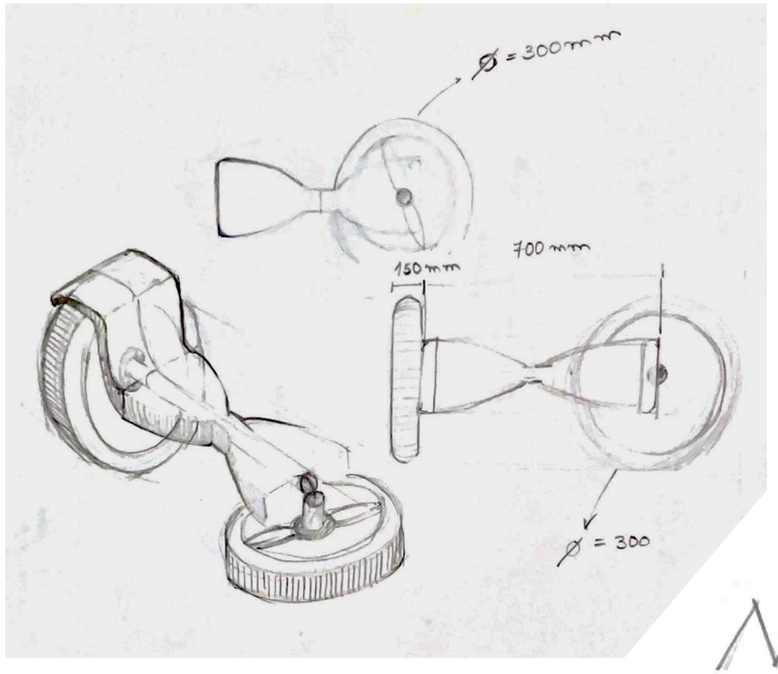


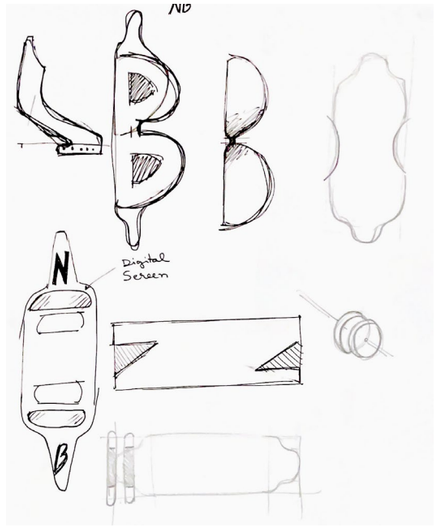


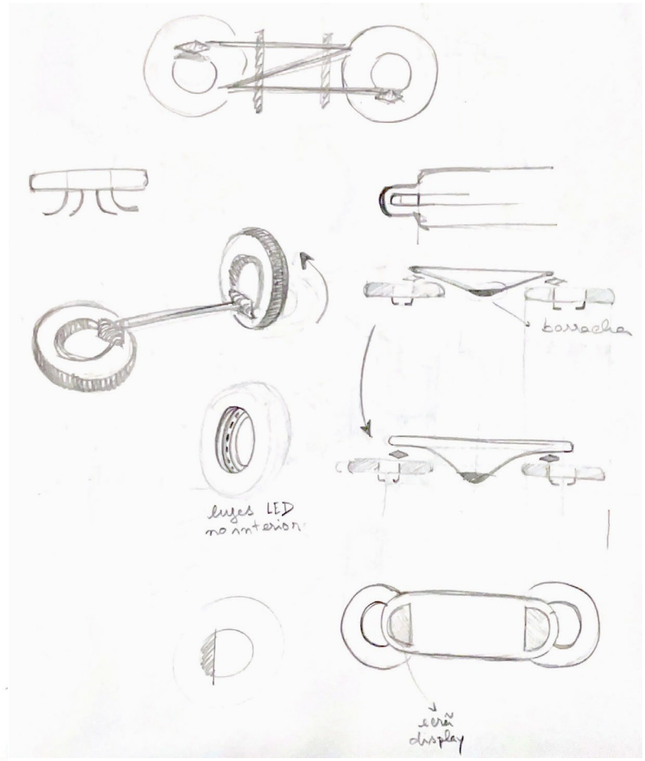







Ø = 300 mm
150 mm
700 mm
Ø = 300


Digital Screen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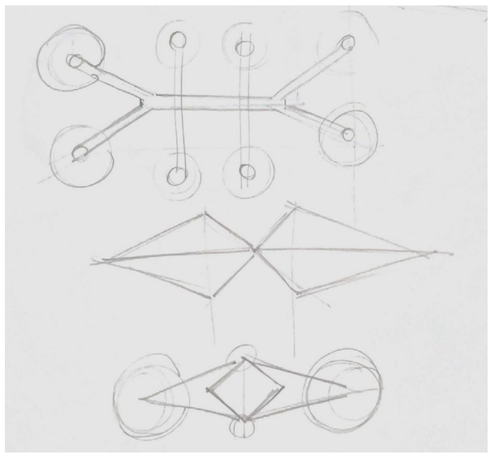
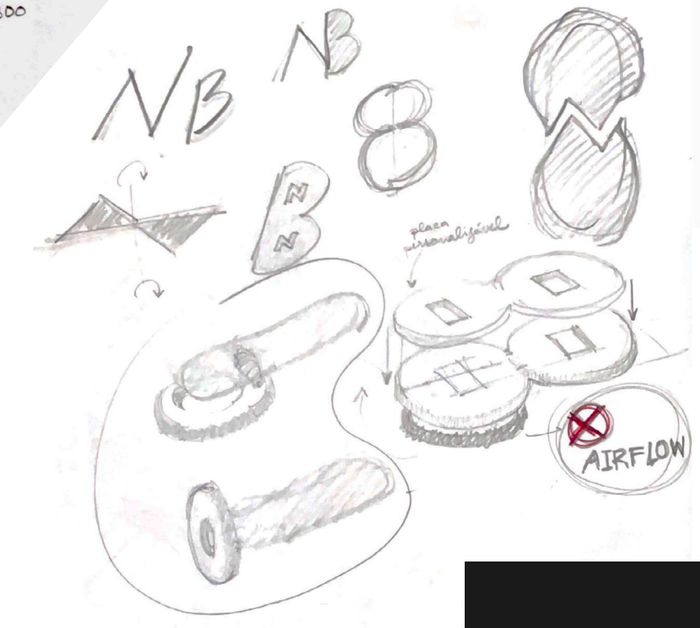
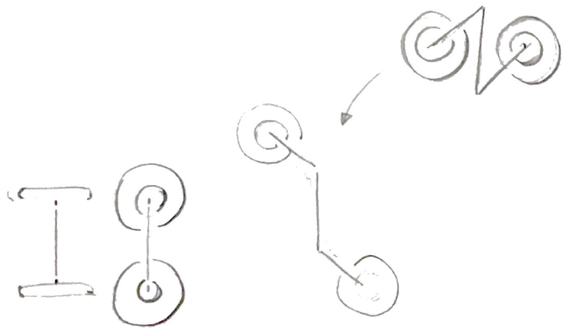
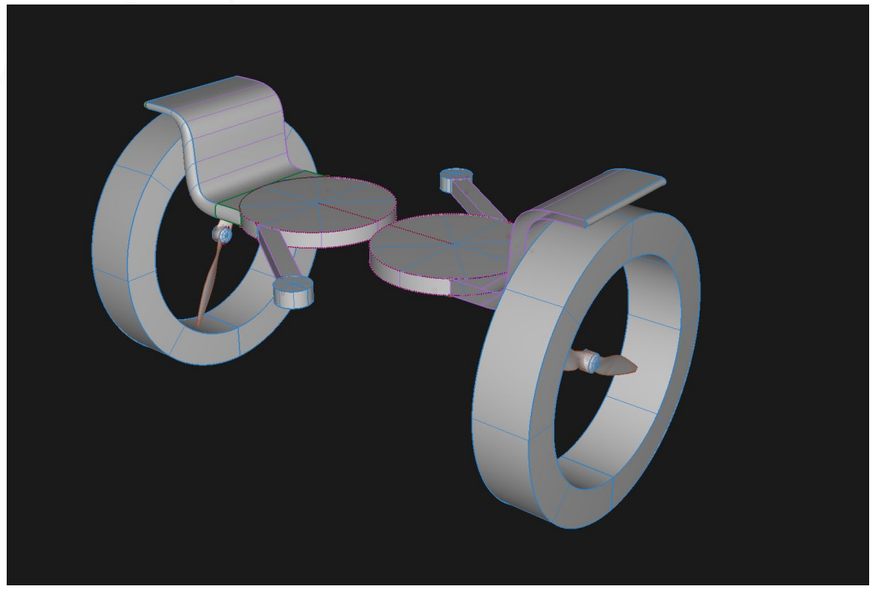
luzes LED
no anterior
ecrã
display




placa personalizável
AIRFLOW

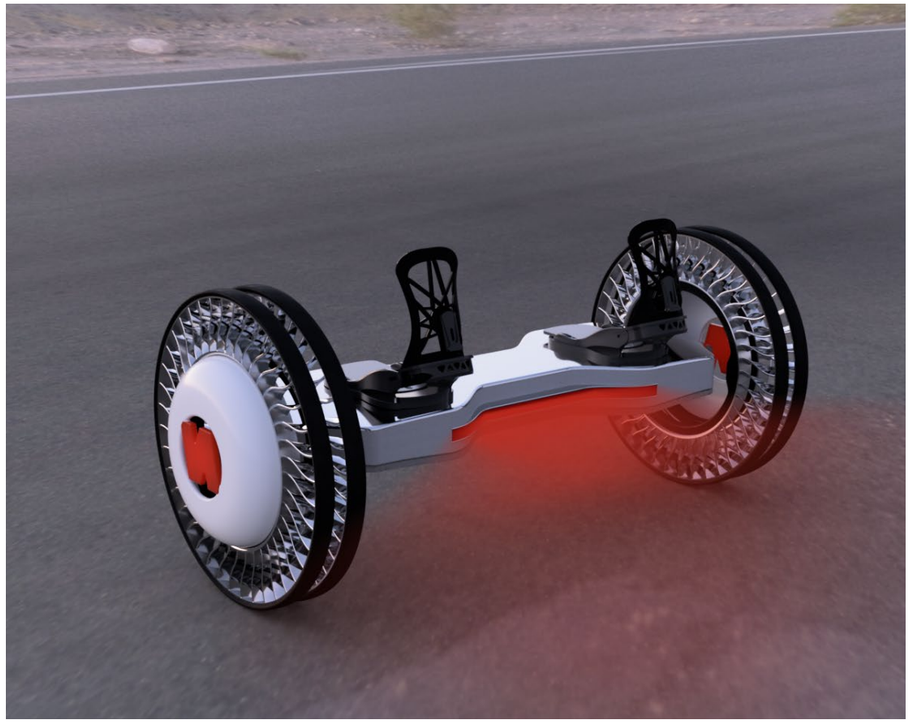


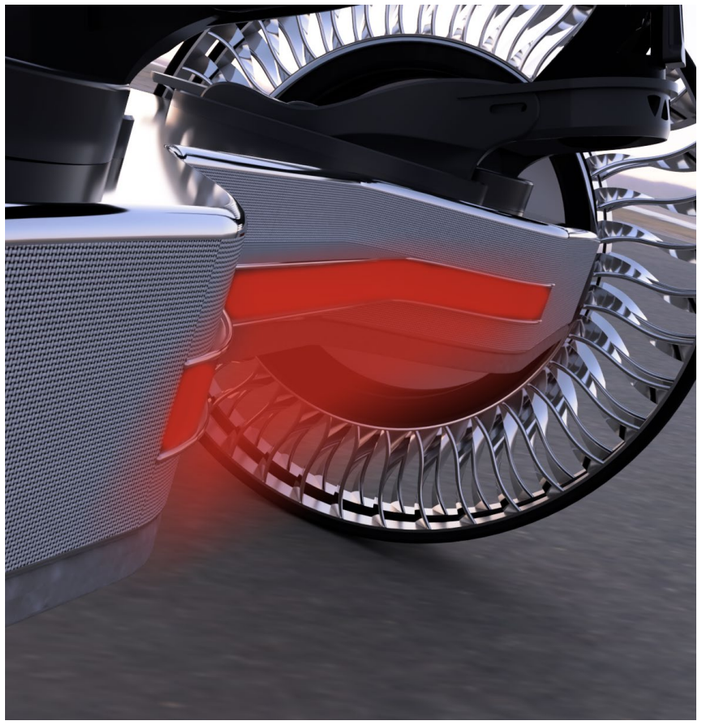


Sky's the Limit,

And

The Road has Never been More Fun.





Window Display

For

WAIMEA

SURF & CULTURE SINCE 1992

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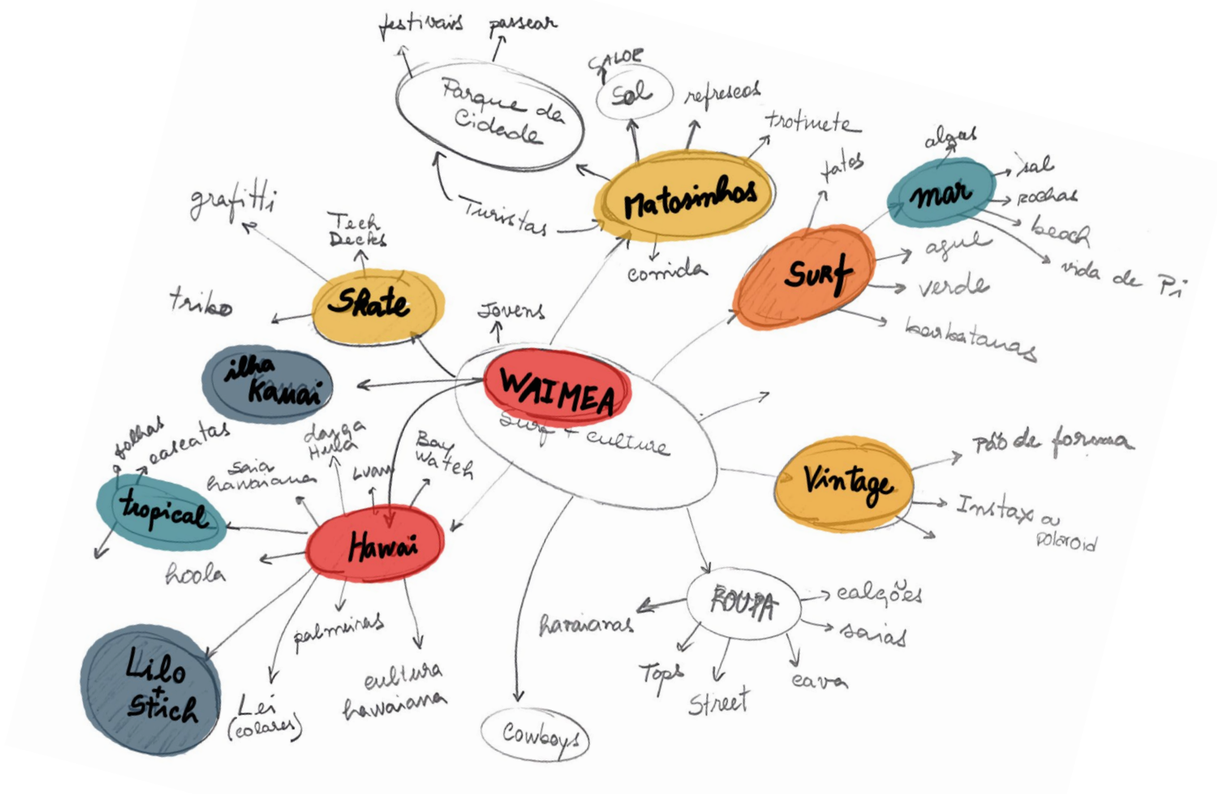
WAIMEA

Window Display



Location:

Matosinhos Sul - Beach

Target:

Age - 13 to 35 years old
GenZ
Millenials
Skaters
Surfers
Urban Style
Surf schools

SWOT Analysis

Strengths

- Location (near the beach)
- Preferential target-audience zone
- Variety of products
- Store size
- Coherence in the store's style in decorative pieces

Weaknesses

- Limited access due to the fact that there are stairs to the 2 floors of the store
- Outlet area little worked on in terms of organization and appearance visual
- Overcrowded - makes it difficult to move around the store
- Lack of privacy in fitting rooms
- Little organization in terms of product types
- Lack of lighting in the storefront
- Too dark color palette, little variety of shades

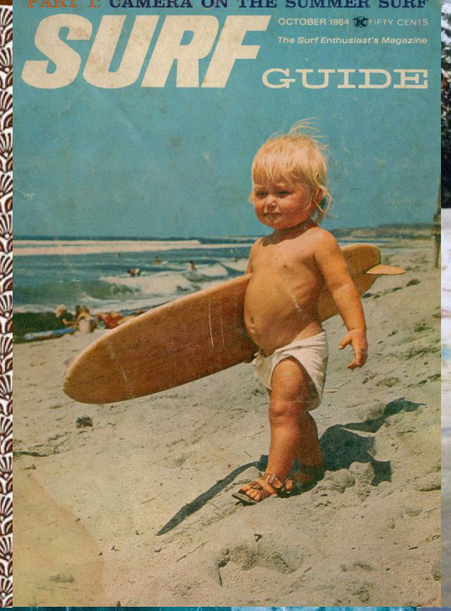
Opportunities

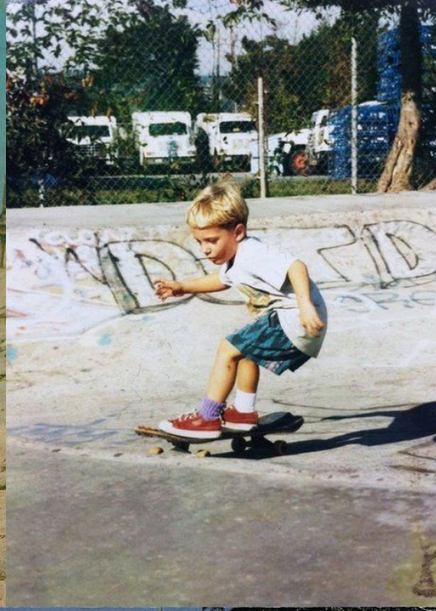
- Improve the organization of products/displays
- Better define the sections of different types of products
- Better highlight the payment box
- Create a highlight with the history of the store and the concept
- Standout decorative piece

Threats

- Lots of competition in the area
- Column that obstructs the visibility of the main window

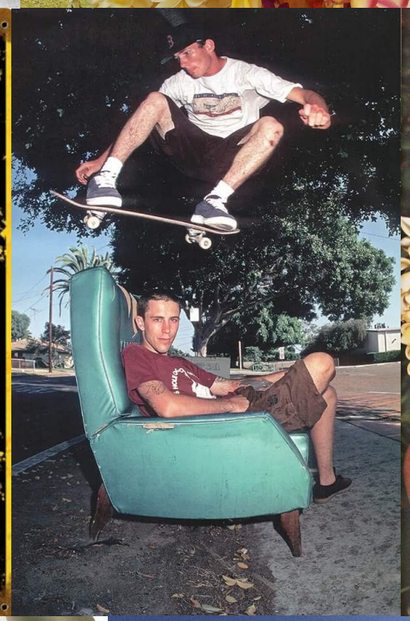
SURF
UBATUBA-SP


PART I: CAMERA ON THE SUMMER SURF
OCTOBER 1964 FIFTY CENTS
The Surf Enthusiast's Magazine
SURF GUIDE

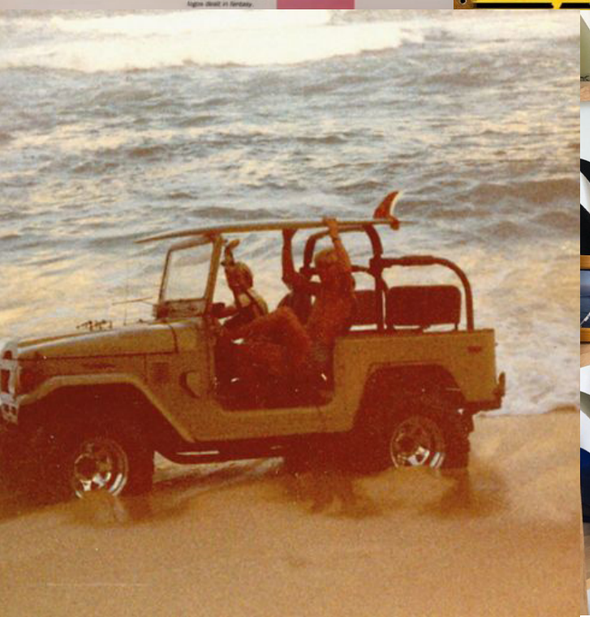


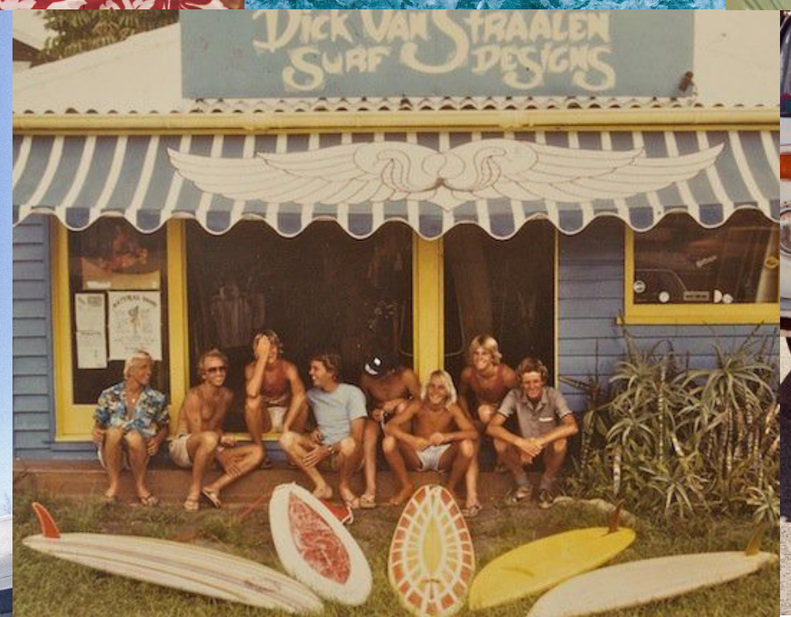
1970
DOWN-RAILER
1971
LIS FISH
1972
SWALLOW-TAILED SEMI-GUN
1974
BREWER SUN
1976
AIPÁ STINGER

LOCALS
ONLY



A SURFER PUBLICATION
SkateBoarder
Vol. 2, No. 1 - $1.00
Hot Action
High Speed
Radical Runs
Slalom, Tricks
Freestyle
Equipment Info
8



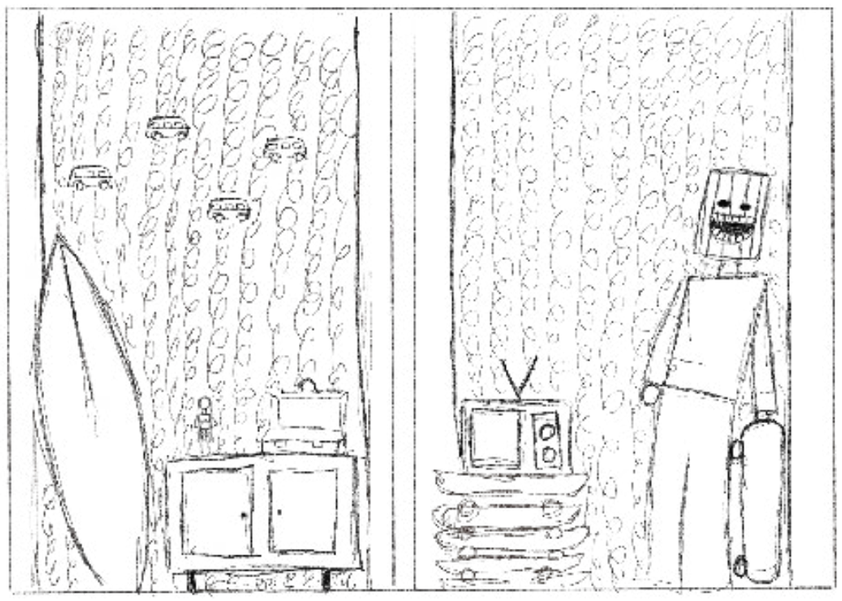

Dick Van Straalen
Surf Designs

1DQV-961

Window Display

Mockup Model

Scale 1:20

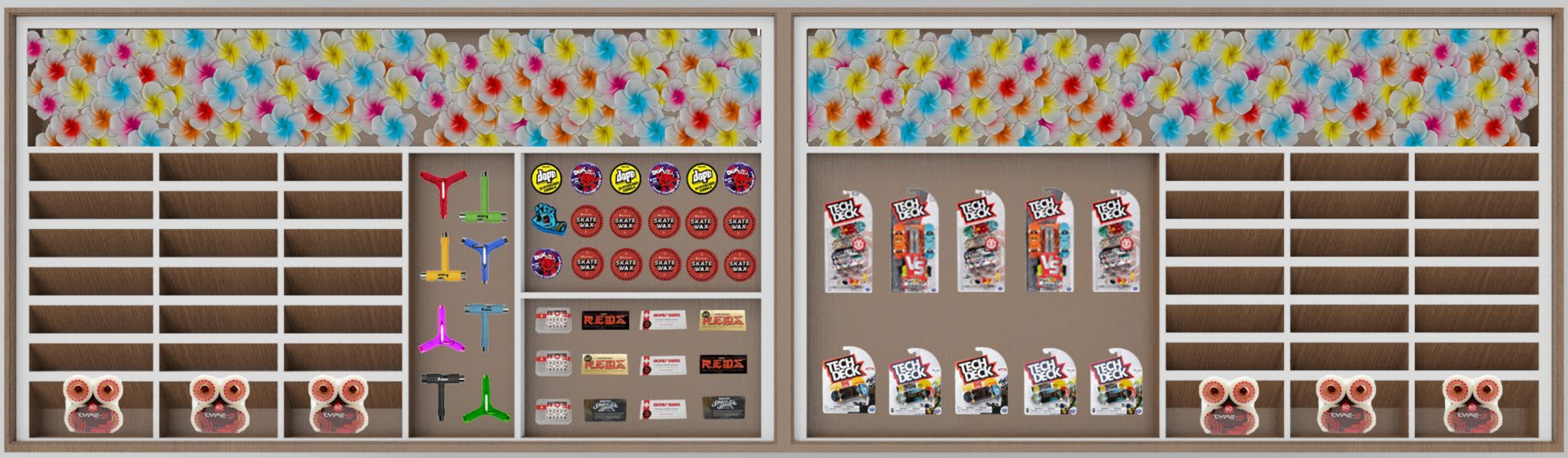


Window Display

Dresser - Furniture Makeover

Window Display

Dresser - Layout



Solo House

Mockup Model

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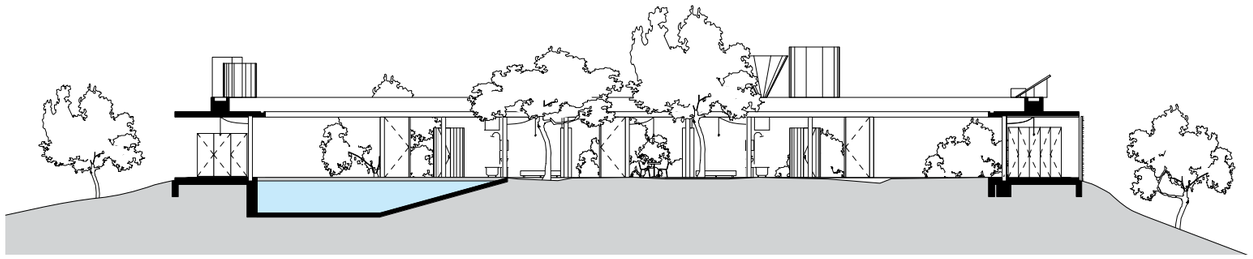
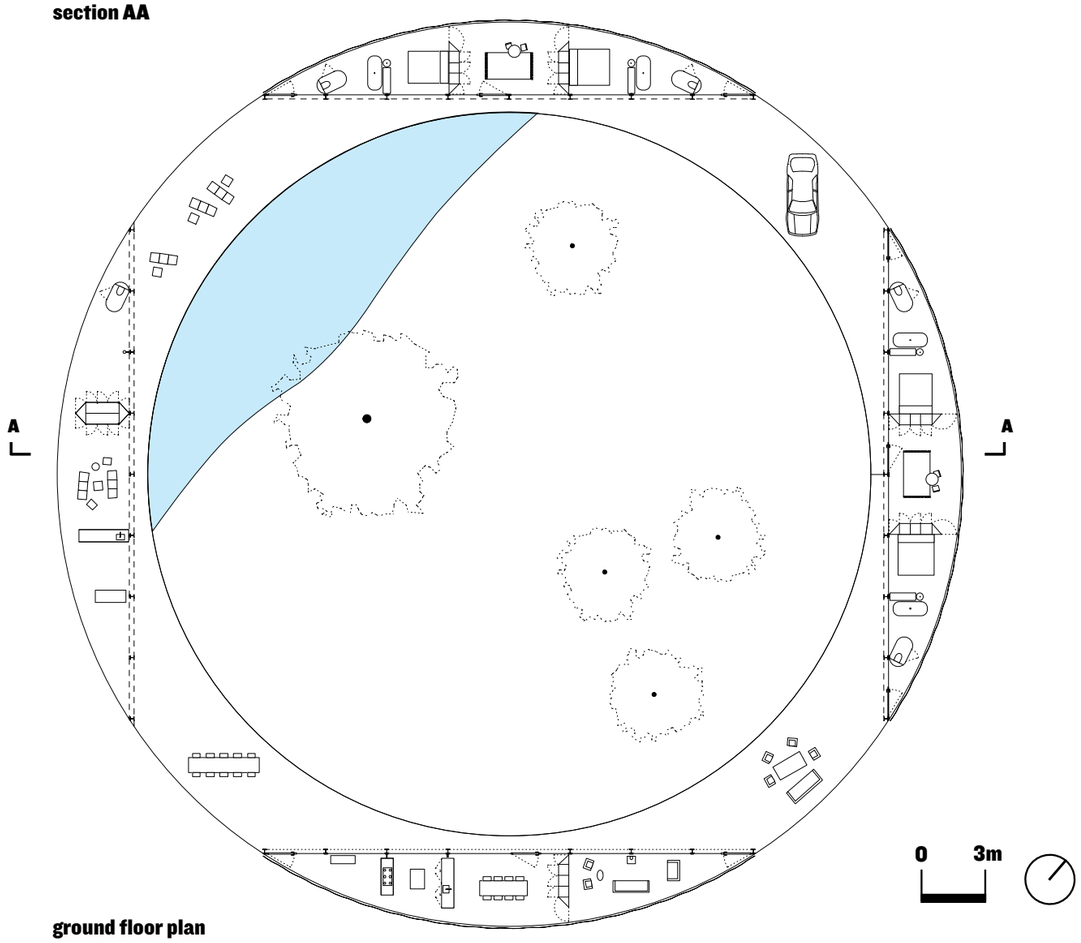
Solo House



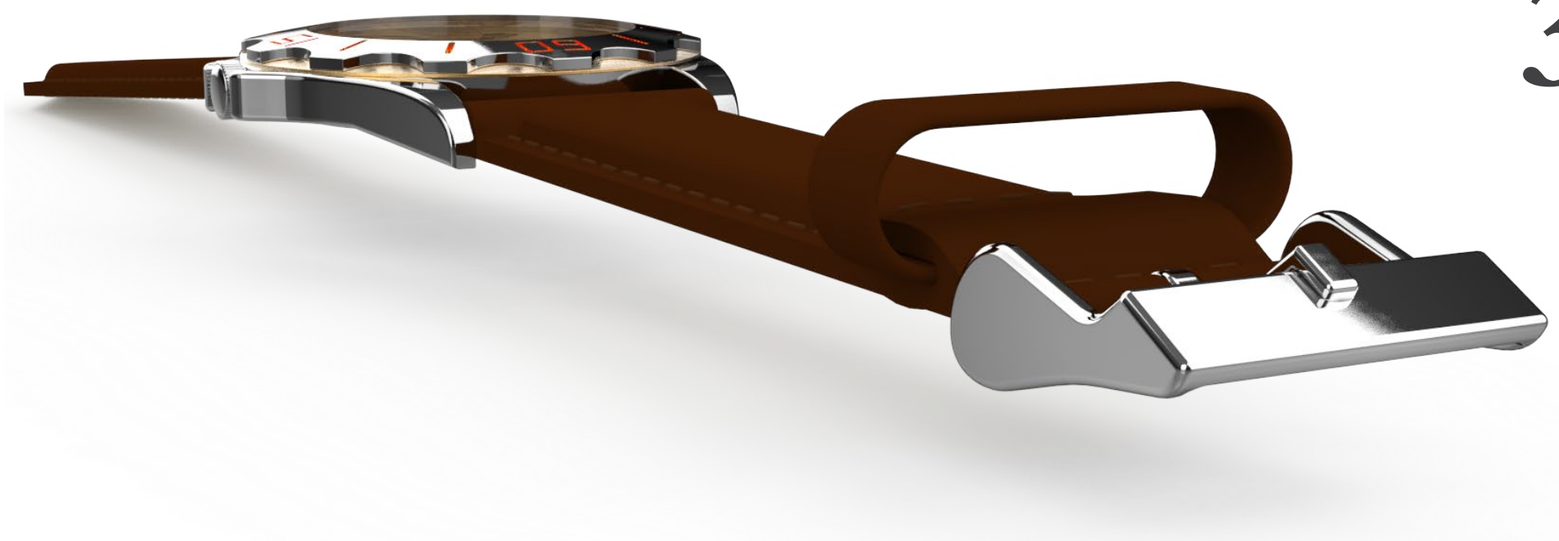
section AA



ground floor plan

OFFICE Kersten Geers David Van Severen

Founded in 2002 by Kersten Geers and David Van Severen.
The studio is known for its idiosyncratic architecture, in which achievements and theoretical projects sit side by side. The designs are direct, spatial and firmly rooted in architectural theory. The studio reduces architecture to its very essence: a limited set of basic geometric rules that is used to create a structure; within which life unfolds in all its complexity.
Since its inception, OFFICE Kersten Geers David Van Severen has earned a reputation as one of Belgium's most successful offices and one of the truly original voices in the world of architecture today. OFFICE is dedicated to all its architectural and urban projects, creating projects of all scales, from furniture to masterplanning in Belgium and internationally. This practice is combined with academic research and teaching. These two aspects of OFFICE's work are explicitly mirrors of each other, creating unexpected parallels between academic work and practical work.



3D Model Watch

For

CERTINA
SWISS WATCHES SINCE 1888
DS

Index

Robust

Durability

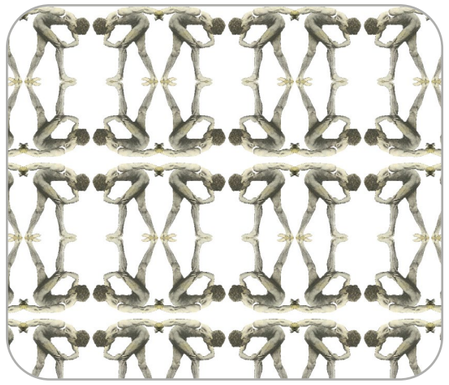
CERTINA
SWISS WATCHES SINCE 1888
DS

Other Projects

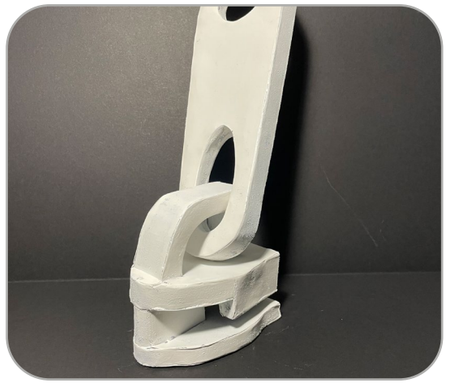
Index

CM Cadeiras

3D Model



Collage/Digital Pattern

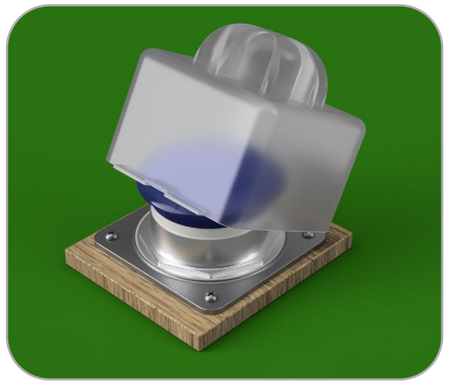


Mockup Model Zipper

Sanindusa

One-Off Outdoor Seating

Signboard Casa dos Caminhos

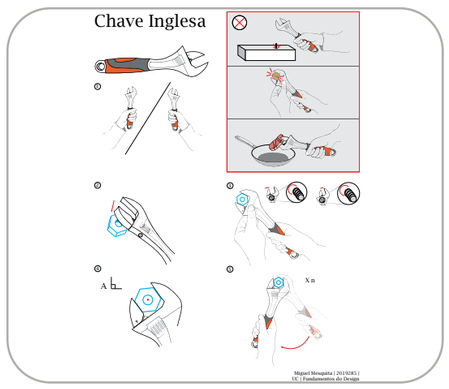


3D Model - Emergency Button

Signboard Stamp

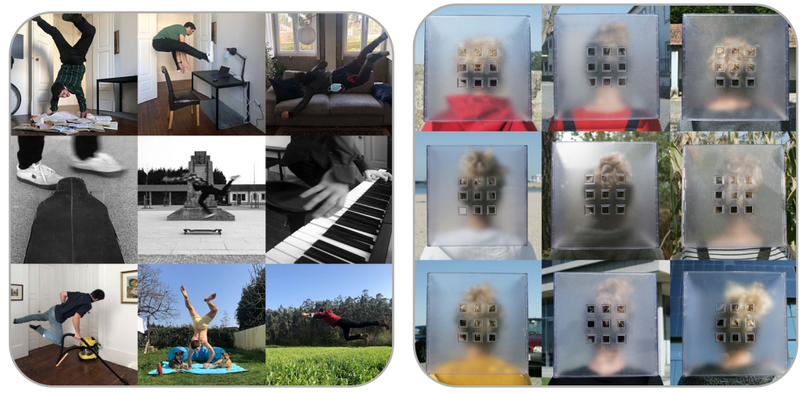
Concept Skateboard

Digital Self-Portrait



User Instructions

Mockup Model SPHERE



Photography

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Synergy Creativity

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